

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) The multi-domain liquid crystal display device comprising:

first and second substrates facing each other and having a pixel region;

a liquid crystal layer between the first and second substrates;

a first dielectric frame on one side of the pixel region;

a second dielectric frame on another side of the pixel region; and

a dielectric protrusion extending from the first substrate to the second substrate between the first dielectric frame and the second dielectric frame;

wherein the first and second dielectric frames distort electric field applied to the liquid crystal layer.

2. (Previously Presented) The multi-domain liquid crystal display device according to claim 1, wherein the dielectric protrusion acts as a spacer to establish a cell gap of the liquid crystal display device.

3. (Previously Presented) The multi-domain liquid crystal display device according to claim 2, wherein the dielectric protrusion is expanded from the first substrate to the second substrate.

4. (Previously Presented) The multi-domain liquid crystal display device according to claim 2, wherein the dielectric protrusion is expanded from the second substrate to the first substrate.

5. (Previously Presented) The multi-domain liquid crystal display device according to claim 1, wherein the height of the dielectric protrusion is equal to that of the first dielectric frame.

6. (Previously Presented) The multi-domain liquid crystal display device according to claim 1, wherein the height of the dielectric protrusion is equal to that of the second dielectric frame.

7. (Previously Presented) The multi-domain liquid crystal display device according to claim 1, wherein the height of the dielectric protrusion is higher than that of the first and second dielectric frames.

8. (Previously Presented) The multi-domain liquid crystal display device according to claim 1, wherein said first and second dielectric frames surround at least three sides of the pixel region.

9. (Currently Amended) The multi-domain liquid crystal display device comprising:

first and second substrates facing each other and having a pixel that is divided into a plurality of regions;

a liquid crystal layer between the first and second substrates;

a first dielectric protrusion on one side of a first one of the divided pixel regions;
a second dielectric protrusion on another side of the first one of the divided pixel regions;
and

a third dielectric protrusion between the first dielectric protrusion and the second dielectric protrusion, wherein the third dielectric protrusion extends from the first substrate to the second substrate;

wherein at least one of the first, second and third dielectric protrusions distort electric field applied to the liquid crystal layer.

10. (Previously Presented) The multi-domain liquid crystal display device according to claim 9, wherein the third dielectric protrusion acts as a spacer to maintain a cell gap of the liquid crystal display device.

11. (Previously Presented) The multi-domain liquid crystal display device according to claim 9, wherein the third dielectric protrusion is located at a central portion of each divided pixel region.

12. (Previously Presented) The multi-domain liquid crystal display device according to claim 9, wherein the first and second dielectric protrusions surround the first one of the divided pixel regions.

13. (Previously Presented) The multi-domain liquid crystal display device according to claim 9, wherein each of the divided pixel regions has a different driving property from each other.

14. (Original) The multi-domain liquid crystal display device according to claim 9, further comprising:

a fourth dielectric protrusion on one side of a second one of the divided pixel regions;

a fifth dielectric protrusion on another side of the second one of the divided pixel regions; and

a sixth dielectric protrusion between the fourth dielectric protrusion and the fifth dielectric protrusion.

15. (Original) The multi-domain liquid crystal display device according to claim 9, wherein the divided pixel regions include two regions.

16. (Original) The multi-domain liquid crystal display device according to claim 9, wherein the divided pixel regions include at least three regions.

17. (Original) The multi-domain liquid crystal display device according to claim 9, wherein the divided pixel regions include at least four regions.

18. (Original) The multi-domain liquid crystal display device according to claim 9, wherein the divided pixel regions include at least six regions.

19. (Original) The multi-domain liquid crystal display device according to claim 9, wherein the divided pixel regions include eight regions.

20. (Previously Presented) A multi-domain liquid crystal display device having an array of pixels comprising:

a first substrate;

a second substrate;

a liquid crystal layer between the first and second substrates;

a first insulating protrusion over the first substrate corresponding to a first side of one of a pixel;

a second insulating protrusion over the first substrate corresponding to a second side of the pixel; and

a third insulating protrusion between the first and second insulating protrusions and acting as a spacer extending from the first substrate to the second substrate.

21. (Original) The multi-domain liquid crystal display device according to claim 20, wherein the pixel is divided into at least two regions.

22. (Original) The multi-domain liquid crystal display device according to claim 20, wherein the pixel is divided into at least three regions.

23. (Original) The multi-domain liquid crystal display device according to claim 20, wherein the pixel is divided into at least four regions.

24. (Original) The multi-domain liquid crystal display device according to claim 20, wherein the pixel is divided into at least six regions.

25. (Original) The multi-domain liquid crystal display device according to claim 20, wherein the pixel is divided into at least eight regions.

26. (Original) The multi-domain liquid crystal display device according to claim 20, wherein the third insulating protrusion extends from the first substrate to the second substrate.

27. (Original) The multi-domain liquid crystal display device according to claim 20, wherein the third insulating protrusion extends from the second substrate to the first substrate.

28. (Original) The multi-domain liquid crystal display device according to claim 20, wherein the first substrate is an upper substrate.

29. (Original) The multi-domain liquid crystal display device according to claim 20, wherein the first substrate is a lower substrate.

30. (Original) The multi-domain liquid crystal display device according to claim 20, wherein the third insulating protrusion has a thickness substantially same as a thickness of the first insulating protrusion.

31. (Original) The multi-domain liquid crystal display device according to claim 30, wherein a thickness of a third insulating protrusion is substantially same as a thickness of the second insulating protrusion.

32. (Original) The multi-domain liquid crystal display device according to claim 20, wherein the third insulating protrusion has a height substantially same as a height of the first insulating protrusion.

33. (Original) The multi-domain liquid crystal display device according to claim 32, wherein a height of the third insulating protrusion is substantially same as a height of the second insulating protrusion.

34. (Original) The multi-domain liquid crystal display device according to claim 20, wherein each of the pixels is divided into multiple sections to form a multi-domain pixel.

35. (Original) The multi-domain liquid crystal display device according to claim 34, wherein the third insulating protrusion surrounds a periphery of each of the multiple sections of the pixel.

36. (Original) The multi-domain liquid crystal display device according to claim 34, wherein the third insulating protrusion is located at a central portion of each of the multiple sections of the pixel.

37. (Original) The multi-domain liquid crystal display device according to claim 20, wherein the third insulating protrusion is spaced from the first and second protrusions by a substantially same distance.